



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
09/247,498	02/18/99	SZWARC	

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MM71/0401

EXAMINER
LEE, K

ART UNIT	PAPER NUMBER
2632	2

DATE MAILED: 04/01/99

**Please find below and/or attached an Office communication concerning this application or proceeding.**

**Commissioner of Patents and Trademarks**

# Office Action Summary

Application No.  
**09/247,490**

Applicant(s)  
**Szwarc et al.**

Examiner  
**Richard K. Lee**

Group Art Unit  
**2832**



☒ Responsive to communication(s) filed on Feb 10, 1999

☐ This action is **FINAL**.

☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

A shortened statutory period for response to this action is set to expire three month(s), or thirty days, whichever is longer, from the mailing date of this communication. Failure to respond within the period for response will cause the application to become abandoned. (35 U.S.C. § 133). Extensions of time may be obtained under the provisions of 37 CFR 1.136(a).

## Disposition of Claims

☒ Claim(s) 1 and 2 is/are pending in the application.

Of the above, claim(s) \_\_\_\_\_ is/are withdrawn from consideration.

☐ Claim(s) \_\_\_\_\_ is/are allowed.

☒ Claim(s) 1 and 2 is/are rejected.

☐ Claim(s) \_\_\_\_\_ is/are objected to.

☐ Claims \_\_\_\_\_ are subject to restriction or election requirement.

## Application Papers

☒ See the attached Notice of Draftsperson's Patent Drawing Review, PTO-948.

☐ The drawing(s) filed on \_\_\_\_\_ is/are objected to by the Examiner.

☐ The proposed drawing correction, filed on \_\_\_\_\_ is ☐ approved ☐ disapproved.

☐ The specification is objected to by the Examiner.

☐ The oath or declaration is objected to by the Examiner.

## Priority under 35 U.S.C. § 119

☐ Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

☐ All ☐ Some\* ☐ None of the CERTIFIED copies of the priority documents have been  
☐ received.

☐ received in Application No. (Series Code/Serial Number) \_\_\_\_\_.

☐ received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\*Certified copies not received: \_\_\_\_\_

☐ Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

## Attachment(s)

☒ Notice of References Cited, PTO-892

☐ Information Disclosure Statement(s), PTO-1449, Paper No(s). \_\_\_\_\_

☐ Interview Summary, PTO-413

☒ Notice of Draftsperson's Patent Drawing Review, PTO-948

☐ Notice of Informal Patent Application, PTO-152

--- SEE OFFICE ACTION ON THE FOLLOWING PAGES ---

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## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claim 1 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schat in view of Person et al. Schat teaches a surface mount resistor 10 with terminal plates 11 and 12 on the side, layered on the substrate 5 surface. Resistor 10 further having a laser trimmed portion 13 (see figure 1). Schat teaches the claimed invention as indicated above, but does not teach the terminal plates having a slot to provide portioned pads (as per claim 1). Person et al. teach a surface mounting terminal resistor (see figure 12-15), having a laser trimmed resistor plate 66 with four terminal plates 68, 70, 72 and 74 connected to the resistor plate (see col. 2, lines 5-10 and col. 5, lines 55-65). Person et al. teach two terminal plates were formed into four terminals with known methods in the art (col. 6, lines 1-15). Further, the portioned size cut on the terminal plates could be made as needed. The terminal plates are utilized for current source connection and for voltage measure connection (col. 6, lines 1-15).

Therefore, it would have been obvious for one of ordinary skill in the art to have used portioned terminal pads, which are formed by slots. One of ordinary skill in the art would have

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been motivated to do this for the purpose of having current source connection and for voltage measure connection for a SMD-resistor.

3. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Schat in view of Person et al. as applied to claim 1 above, further in view of Sutorius et al. Schat and Person et al. teach the claimed invention as indicated above, but do not teach the high thermal dielectric cement bond (as per claim 2). Sutorius et al. teach the use of magnesium oxide based dielectric cement. Sutorius et al. do this for the purpose of using an effective bonding material having an insulation and a thermoconductive properties (col. 7, lines 55-60).

Therefore, it would have been obvious for one of ordinary skill in the art to have used high thermal dielectric cement for bonding purposes. One of ordinary skill in the art would have been motivated to do this for the purpose of using an effective bonding material having an insulation and a thermoconductive properties.

### *Conclusion*

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Oberholzer discloses a surface mounted laser trimmed resistor devices.

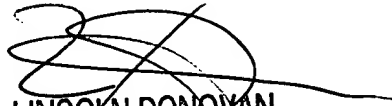
5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Lee whose telephone number is (703) 306-9060. The examiner can normally be reached on Monday to Friday from 8:30 AM to 5:00 PM EST.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0956 or (703) 305-4900.

RKL 

March 27, 1999

  
LINCOLN DONOVAN  
PRIMARY EXAMINER  
GROUP 2100